

INDEX TO ECOLOGY, VOLUME 68, 1987

AUTHOR INDEX

A

Abrahamson, W. G., 822
 Adler, G. H., 1785
 Ågren, G. I., 1181
 Alatalo, R. V., 284, 1773
 Andersen, D. C., 1306
 Andrén, O., 1190
 Augspurger, C. K., 27
 Averill, A. L., 878
 Ayres, M. P., 558

B

Baia, K. A., 2059
 Baker, D. L., 98
 Ballinger, R. E., 1828
 Baltus, M., 1679
 Banerjee, B., 839
 Bazzaz, F. A., 54, 411, 2016
 Beach, J. H., 1283, 1294, 1696
 Berenbaum, M. R., 516
 Bierzychudek, P., 444
 Bird, G., 221
 Blake, J. G., 1724
 Blancher, P. J., 723
 Boardman, T. J., 983
 Bock, C. E., 124
 Bohanan, R. E., 1459
 Bosatta, E., 1181
 Boyce, M. S., 142
 Bradfield, G., 750
 Breitburg, D. L., 1844
 Brown, B. J., 108
 Brown, J. H., 1328
 Bryant, J. P., 1319
 Buechner, M., 310
 Burquéz, A., 65
 Busby, W. H., 1283, 1294, 1696
 Buss, L. W., 971
 Buyanovsky, G. A., 2023

C

Cappuccino, N., 1634
 Caraco, T., 887
 Carpenter, M. P., 154
 Carpenter, S. R., 1863
 Case, T. J., 154
 Caswell, H., 1045, 1412, 1877
 Chandler, G. T., 1906
 Chatarpaul, L., 221
 Cheong, R. T., 611
 Chernoff, H., 199
 Clancy, K. M., 733
 Cochran, P. A., 1863
 Coleman, D. C., 425
 Colgan, M. W., 1592
 Collins, S. L., 1243
 Colton, T. F., 900

Cooper, S. M., 319
 Cornelius, J. M., 448
 Corral, G., 65
 Cox, C. S., 2006
 Creed, E. L., 1877
 Crook, J. R., 1373
 Crouse, D. T., 1412
 Crowder, L. B., 1412
 Crowley, P. H., 1459
 Cunningham, C. W., 971
 Cwynar, L. C., 791

D

Damman, H., 88
 Danell, K., 1623
 Danielson, B. J., 1778
 Degen, A. A., 1029
 del Moral, R., 780
 DePatra, K. D., 1877
 Dickerson, Jr., J. E., 587
 Dixon, K. R., 772
 Dixon, P. M., 1548
 Dodson, S. I., 913
 Downum, K. R., 828
 Dueser, R. D., 1084
 Duffy, J. E., 1567
 Dunning, J. B., 1009
 Dunwiddie, P. W., 1

E

Ellison, A. M., 576, 737
 Elmqvist, T., 1623
 Elser, J. J., 1863
 Elser, M. M., 1863
 Ericson, L., 1623
 Eriksson, D., 284
 Espinosa, F., 65
 Ewel, J. J., 108, 491

F

Fahey, T. J., 1966
 Farr, J. A., 611
 Feinsinger, P., 1283, 1294, 1696
 Fellers, J. H., 1466
 Fenical, W., 1567, 1581
 Fleeger, J. W., 1906
 Fletcher, W. J., 387
 Fonteyn, P. J., 1121
 Ford, T. E., 1139
 Franklin, J., 473
 Franson, S. E., 27
 Fraser, D. F., 1856

G

Gaines, M. S., 684, 1778
 George, T. L., 1393

Gerrodette, T., 1364
 Getis, A., 473
 Gibbs, H. L., 1735
 Gilbert, J. J., 181, 370
 Gill, D. E., 217
 Gillespie, R. G., 887
 Gilliam, J. F., 1856
 Gilpin, M. E., 154
 Goldberg, D. E., 1211
 Gorchov, D. L., 223
 Grant, P. R., 1735
 Greenberg, R., 130
 Greenfield, M. D., 828
 Grimm, N. B., 1157
 Guindon, C., 1696
 Gustafson, K., 1581
 Gustafsson, L., 284, 291
 Gutierrez, J. R., 2032

H

Hackney, C. T., 1109
 Hagerman, A. E., 98, 1606
 Hanley, T. A., 98, 1606
 Hansen, A. J., 1387
 Harder, L. D., 1104
 Harney, B. A., 1084
 Harris, R. N., 705
 Hastings, A., 117
 Hawksley-Lescault, D. S., 1819
 Hay, M. E., 1567, 1581
 He, X., 1863
 Hebert, P. D. N., 188
 Henrich, S., 611
 Hepp, G. R., 213
 Hershey, A. E., 913
 Hill, W. R., 1955
 Hines, J. E., 213, 1038
 Hjeltjord, O., 98
 Hodgson, J. R., 1863
 Holland, E. A., 425
 Houston, A. I., 1515
 Howard, J. J., 503
 Huenneke, L. F., 1234
 Huntly, N. J., 12, 274
 Huryn, A. D., 1932
 Hutchings, J. A., 1839

I

Ims, R. A., 1812
 Inouye, R. S., 12

J

Johnson, D. M., 1459
 Johnson, E. A., 43
 Johnson, M., 684
 Johnson, N. D., 1268
 Jones, G. P., 1534

Jones, S. M., 1828
 Jordano, P., 1711
 Juelson, T. C., 772

K

Kam, M., 1029
 Karr, J. R., 1724
 Keeley, J. E., 211, 434
 Kenkel, N., 750
 Keough, M. J., 199
 Kerfoot, W. C., 596
 Kimmel, B. L., 1943
 Kinsman, S., 1283, 1696
 Kitchell, J. F., 1863
 Kneib, R. T., 379
 Knight, A. W., 1955
 Knight, D. H., 1966
 Kooiman, M., 1696
 Kretchmer, D., 1863
 Kroh, G. C., 254
 Kucera, C. L., 2023

L

Lair, H., 1092
 Lakhani, K. H., 2046
 Lamey, T. C., 1760
 Larsson, K., 284
 Lawrence, W. S., 539
 LeGuyader, J. L., 1268
 Letourneau, D. K., 1616
 Levin, L. A., 1877
 Levinton, J. S., 229
 Lewis, S. M., 636
 Leyden, B. W., 1553
 Lightfoot, D. C., 547
 Lima, S. L., 1062
 Linhart, Y. B., 1283, 1294, 1696
 Lock, M. A., 1139
 Lodge, D. M., 1863
 Loery, G., 1038
 Lovett Doust, J., 2056
 Lovett Doust, L., 2056
 Ludwig, J. A., 448
 Lyon, B. E., 713

M

M'Closkey, R. T., 2059
 MacLean, Jr., S. F., 558
 Maillette, L., 1251
 Main, K. L., 170
 Malanson, G. P., 463
 Manzini, M. L., 1488
 Marion, G. M., 1121
 Marks, P. L., 1234
 Martin, T. H., 1459
 Matson, P. A., 491
 Mautz, W. W., 98
 Mazzarino, M. J., 491
 McConnaughey, K. D., 411
 McCormick, S. J., 332
 McCrear, K. D., 822
 McEvoy, P. B., 2006
 McNamara, J. M., 1515
 Meagher, T. R., 803
 Melillo, J. M., 1139
 Miller, K., 983
 Miller, T. E., 1201
 Mitchell-Olds, T., 82, 1548

Mladenoff, D. J., 1171
 Mock, D. W., 1760
 Mole, S., 1606
 Montgomerie, R. D., 713
 Montygiard-Loyba, T. M., 211
 Morales, E., 65
 Moreno, J., 1773
 Morin, P. J., 675
 Morris, D. W., 362
 Murawski, D. A., 1273
 Murray, K. G., 1283, 1294, 1696
 Myers, R. A., 1839

N

Nagy, K. A., 1029
 Naiman, R. J., 1139
 Nechols, J. R., 1479
 Nedelman, J., 1401
 Nichols, J. D., 213, 1038
 Nilsson, S. G., 260
 Nitao, J. K., 521
 Norris, J. N., 636

O

Odendaal, F. J., 869
 Oechel, W. C., 401
 Owen-Smith, N., 319

P

Packard, G. C., 983
 Packard, M. J., 983
 Paige, K. N., 1691
 Papaj, D. R., 245
 Paustian, K., 1190
 Pearson, J. A., 1966
 Perrins, C. M., 142
 Peterson, C. G., 946
 Peterson, C. R., 160
 Peterson, S. C., 1268
 Pfister, C. A., 1567
 Philippi, T. E., 154
 Pierce, C. L., 1459
 Pinder, III, J. E., 254
 Ploger, B. J., 1760
 Polis, G. A., 332
 Pollard, E., 2046
 Pollock, K. H., 213, 1038
 Pounds, W. Z., 1696
 Power, A. G., 1658
 Price, M. V., 1797
 Price, P. W., 733
 Price, T., 1015
 Prokopy, R. J., 878
 Pulliam, H. R., 1009

R

Rachar, D. B., 221
 Ralhan, P. K., 1974
 Randall, D. C., 741
 Rausher, M. D., 245, 869
 Real, L. A., 1045, 1104
 Reeve, J. D., 530
 Reice, S. R., 1139
 Reichman, O., 1797
 Reyes López, J. L., 1630
 Ricci, C., 1488
 Rice, K. J., 1113
 Robbins, C. T., 98, 1606

Robertson, G. P., 491, 744
 Robertson, R. J., 723
 Robinson, J. V., 587, 921
 Robles, C., 1502, 2062
 Rogers, C. M., 1051
 Rossiter, M., 857
 Rothery, P., 2046
 Roudebush, R. E., 1453
 Runkle, J. R., 417
 Russell, R. W., 2059

S

Salgado-Labouriau, M. L., 1551
 Salomonson, A., 1623
 Salwasser, H., 776
 Sauer, J. R., 642
 Savidge, J. A., 660
 Scheibe, J. S., 1424
 Schlesinger, W. H., 1121
 Schlosser, I. J., 651
 Schmid, B., 2016
 Schmitt, R. J., 1887
 Schroder, G. D., 1071
 Schwaegerle, K. E., 54
 Schwartz, C. C., 98
 Searles, R. B., 636
 Semlitsch, R. D., 994, 1003
 Sheldon, S. P., 1920
 Shelly, T. E., 828
 Sheridan, M., 1102
 Shields, W. M., 1373
 Shugart, Jr., H. H., 695
 Sih, A., 1679
 Simberloff, D. S., 766, 1647
 Singer, M. C., 1262
 Singh, S. P., 1974
 Skagen, S. K., 1747
 Skalski, J. R., 749
 Skeate, S. T., 297
 Slade, N. A., 642
 Smith III, T. J., 266
 Smith, D. C., 344
 Smith, T. M., 695
 Søballe, D. M., 1943
 Sork, V. L., 1341
 Steger, R., 1520
 Steiger, J. W., 478
 Stemberger, R. S., 181, 370
 Stenson, J. A., 928
 Sternberg, L. S., 1898
 Stevens, G. C., 77
 Stilling, P. D., 844, 1647
 Stillwell, M., 12
 Strain, B. R., 1116
 Strauss, S., 1670
 Streams, F. A., 935
 Strojjan, C. L., 741
 Strong, Jr., D. R., 765
 Swart, P. K., 1898

T

Tamarin, R. H., 1102
 Tauber, C. A., 1479
 Tauber, M. J., 1479
 Taylor, D. H., 1453
 Taylor, R. J., 1401
 Temple, S. A., 669
 Tester, J. R., 12
 Thomas, C. D., 1262

Thompson, E., 803
Thompson, J. A., 1401
Tilman, D., 12
Tissue, D. T., 401
Trabaud, L., 463
Travis, J., 611
Trivelpiece, S. G., 351
Trivelpiece, W. Z., 351
Turner, F. B., 741
Turner, R. M., 478

U

Underwood, A. J., 387
Ungar, I. A., 569

V

Vaghi, L., 1488
Vanni, M. J., 624
Venable, D., 65
Vitousek, P. M., 491

Volkman, N. J., 351
von Ende, C. N., 1863

W

Wagner, G. H., 2023
Wallace, J. B., 1932
Walter, D. E., 226
Wästljung, U., 260
Watson, C. N., 1459
Webb, R. H., 478
Webb, S. L., 1993
Weider, L. J., 188
Weiner, J., 1548
Wellborn, G. A., 921
Weller, D. E., 813
Werner, P. A., 1201, 1224
Westoby, M., 1984
Whitford, W. G., 547, 2032
Whitham, T. G., 1691
Wilbur, H. M., 1437

Wilson, M. L., 1785
Winn, A. A., 1224
Wood, D. M., 780
Woodley, R., 1548
Wray, S. M., 1116
Wyman, R. L., 1819

Y

Yetter, T. C., 417
Yund, P. O., 971

Z

Zammit, C., 1984
Zammuto, R. M., 1351
Zangerl, A. R., 516, 521
Zeh, D. W., 1495
Zeng, Z., 1328
Zimmer-Faust, R. K., 955
Zinnel, K. C., 12

KEY WORD INDEX

A

Abscission, 1647
 Abundance, 124, 1520
Acanthaaster planci, 1592
Acer saccharum, 417
 Adaptation, 54
 Adirondacks, 1373
 Adult survival, 291
Aepyyceros melampus, 319
 Age and recovery, 1488
 Age at maturity, 1351
 Age structure, 651, 1251
 Age-dependence, 1038
 Age-specific, 1351
 Age-specific survival, 1828
 Aggregation, 530, 1634
 Aggression, 1466, 1520
 Agroecosystem, 425
Agropyron repens, 1201
 Alaska, 401, 1319
Alectoris, 1029
 Algae, 1567, 1581, 1943, 1955
 Algal morphogenesis, 636
 Algivory, 226
 Alien, 2006
 Allometry, 913, 921
Alnus, 1234
 Alpha 13 C, 254
 Alpine tundra, 1251
Ambrosia artemisiifolia, 1201
Ambrosia dumosa, 741
Ambystoma talpoideum, 994, 1003
Ameletus, 1955
 American Goldfinch, 1747
Ammoperdix, 1029
 Amphibian, 705, 994, 1003, 1437
 Amphipods, 1567
Amphispiza, 1393
Amphithoe longimana, 1567
 Anaerobic, 1109
 Acillary rosette, 1691
Andropogon virginicus, 1116
 Anhydrobiosis, 1488
 Anion exchange, 491
 Annual, 411
 Annual census, 2046
 Annual plants, 1113
 Ant-deterrent compounds, 503
 Ant-tending, 1670
 Antarctica, 351
Antennaria, 444
 Antiherbivore defenses, 503, 1319
 Antipredator defense, 928
 Ants, 1466, 1630
 Anura, 344
Aphytis melinus, 530
 Apical dominance, 2016
 Apomixis, 444
 Appalachian Mountains, 1932
 Apparent competition, 1887
 Aquatic communities, 587, 1920
 Aquatic insects, 913, 935
 Aquatic predator, 900
Arbacia punctulata, 1567
 Arboreal habitat, 1084
 Arctic, 188, 713

Arctic tundra, 401
Ardea herodias, 1760
 Area effects, 1724
 Aridity in tropics, 1551
 Aristolochia, 245
 Arizona, 124, 733, 1797
 Arroyo willow, 733
Artemisia ludoviciana, 1670
 Artificial fruits, 27
 Artificial nest experiment, 1393
Asimina, 88
Asplanchna, 181
 Assemblage structure, 1955
 Assembled communities, 921
Aster, 2016
Aster pilosus, 1116
 Atlantic salmon, 1839
Atta cephalotes, 503
 Australia, 1984
 Autocorrelation, 744
 Avalanche frequency, 43
 Avian nest predators, 1393
 Avian reproduction, 1062
 Aviary experiment, 1773
Avicennia, 266
 Avoidance, 1466

B

Bacteria, 425
 Baja California, 1393
 Bald Eagle, 1387
Banksia ericifolia, 1984
Banksia oblongifolia, 1984
 Barley straw, 1190
 Barro Colorado Island, 27
Battus philenor, 245, 869
 Bdelloid rotifer, 1488
 Beech, 260, 1993
 Beetles, 539
 Behavioral avoidance, 170
 Behavioral ecology, 310
 Behavioral interactions, 1453
 Belowground, 1306
 Belowground decomposition, 1109
 Bending stress, 43
 Benthos, 229
 Benzaldehyde, 1268
 Bet hedging, 142
Betula cordifolia, 1251
Betula glandulosa, 43
Betula pubescens, 558
 Biennial, 2006
 Bioassay, 503
 Biogeochemistry, 1139
 Biogeography, 1993
 Biological control, 530
 Biological features, 844
 Biological interactions, 1887
 Biomass, 1966
 Biomass production, 2032
 Bioturbation, 1306
 Bird communities, 1393, 1724
 Bird-dispersed, 297
 Birds, 124, 1051, 1062
 Bivalves, 1887
 Bivariate median, 1092

Black cherry, 1268
 Black-capped Chickadee, 1038
 Block kriging, 744
 Body mass, 642
 Body size, 181, 229, 651, 1003, 1773
 Body temperature, 160
Boiga irregularis, 660
 Bootstrapping, 1548
 Boreal forest, 1139
Bosmina, 596
 Boundary analysis, 448
Brachionus, 181
 Breeding biology, 1373
 Breeding birds, 735
 Breeding success, 291, 351
 Brood reduction, 1760
 Brood size, 1062
 Browsing, 319, 1251
Bruguiera, 266
 Bryozoa, 199
 Bud demography, 1251
Bufo, 1437
Bugula neritina, 199
 "Bulldozing," 387
 Bumble bees, 1104
 Burrowing, 1306
Bursera simaruba, 77

C

C₃ plants, 254
 C₄ plants, 254
Calcarius lapponicus, 713
 Caliche, 1121
 California, 332, 1113
 Capture probability, 213
 Capture-recapture, 217, 1038
 Capture-recapture models, 213
 Carbohydrate, 401
 Carbon, 1139
 Carbon flow, 2023
 Carbon mineralization, 1181
 Carbon/nutrient balance, 1319
Carduelis tristis, 1747
Caretta caretta, 1412
 Caribbean, 1581
 Caridean shrimp, 170
 Cascade Range, 791
 Case studies, 844
Casmerodius albus, 1760
 Cassava, 108
 Cassin's Kingbird, 723
 Catastrophe, 765, 766
 Caterpillars, 88
Ceanothus, 211
 Cedar Creek Natural History Area, 12
 Center of activity, 1092
 Central Himalaya, 1974
 Central place, 1092
 Central place foraging, 274
Cerriops, 266
 Cervids, 98
Chamaelirium luteum, 803
Chaoborus, 370, 928
 Chaparral, 211, 434
 Character displacement, 229, 1283
 Charcoal, 791
 Charred wood, 434
 Chemical components, 1190
 Chemical defense, 521, 1268, 1567, 1581
 Chemical induction, 596

Chenopodium album, 1201
 Chernetidae, 1495
 Chihuahuan Desert, 448, 1121, 2032
 Chir pine, 1974
 Chironomidae, 913
 Christmas bird counts, 124
 Chrysomelid, 1670
Chrysopa, 1479
 Churchill, Manitoba, 188
 Circular plots, 749
 Cladocera, 188
 Cladoceran defenses, 596
 Cladocerans, 370, 624
 Clearance rates, 181
 Climate, 1190, 1424
 Clonal growth, 2056
 Clonal integration, 2016
 Clonal plants, 822
 Clonal responses to selection, 596
 Clones, 188
 Cloning, 1691
 Cloud forest, 1283, 1294, 1696
 Clumping, 1647
 Clustering, 473
 Clutch overlap, 611
 Clutch size, 142, 1062
 Co-occurrence data, 117
 CO₂ enrichment, 1116
 Coastal sage, 434
 Coefficient of variation, 596
 Coenoplane, 750
 Coexistence, 935, 1778
Coleogyne ramosissima, 478
 Coloniality, 1373
 Colonization, 117, 587, 1778, 1906, 2006
 Colonization success, 1812
 Colonizing, 411
 Colonizing species, 1113
 Color preferences, 1104
 Colorado, 425, 444
 Colorado River, 946
 Columbian ground squirrel, 1351
 Combining evidence, 1459
 Community, 411
 Community assembly, 587
 Community composition, 2032
 Community structure, 624, 946, 1116, 1201, 1243, 1424, 1453, 1696, 1797
 Comparative method, 713
 Compensatory mortality, 1592
 Compensatory reproduction, 521
 Competition, 117, 229, 344, 387, 569, 576, 675, 723, 737, 971, 1071, 1116, 1201, 1211, 1437, 1453, 1459, 1466, 1679, 1906, 1955, 2016
 Competition for pollination, 1283
 Competitive ability, 1812
 Competitive hierarchy, 1201
 Complex life cycle, 994
 Compositae, 65
 Computer-aided simulation, 1630
 Confidence interval, 1548
 Coniferous forests, 1, 284
 Conservation, 776, 1387
 Contagious distribution, 1592
 Convergent succession, 478
 Copepod, 370, 1906
 Copepod predation, 596
 Coral reef, 1534, 1581, 1592
 Coral rubble, 1520
Cordia alliodora, 108

Correlation, 1630, 2046
Coryphopterus nicholsi, 1844
 Cost of reproduction, 142, 1828
 Cost of sex, 444
 Costa Rica, 77, 108, 491, 503, 1283, 1294, 1696
 Crab, 266, 955
Crataegus, 878
 Creosotebush, 547
Cricotopus, 913
 Cryptic coloration, 170
 Cucurbitaceae, 1616
 Cushion plants, 274
 Cyanogenesis, 1268
 Cyclomorphosis, 913
Cydia, 260
 Cyprinidae, 1856

D

Dacus, 1711
Dalbulus, 1658
 Damselfly, 913
Daphnia, 370
 Darwin's finches, 1015, 1735
 Date at metamorphosis, 344
 Decay constant, 2023
 Deciduous, 1974
 Decomposer food web, 1819
 Decomposition, 221, 1181, 1190
 Defense cost, 928
 Defensive regurgitation, 1268
 Demographic stochasticity, 765, 766
 Demography, 211, 611, 642, 1213, 1234, 1351, 1412, 1502, 1785, 1828, 1877, 2006
 Dendochronology, 1966
 Density, 994, 1003, 1328, 2032
 Density compensation, 1393
 Density dependence, 344, 705, 844, 1534, 1634, 1679, 2046
 Density effects, 2016
 Density independence, 844
 Density tolerance, 1812
 Deposit feeding, 229, 955
 Depth, 387
 Desert adaptation, 1029
 Desert annual plants, 2032
 Desert ecosystems, 1121
 Desert partridge, 1029
 Desert rodents, 1071
 Desert shrubs, 478
 Desert streams, 1157
 Deserts, 332, 547, 741, 1328
 Desiccation, 946, 1488
Desmognathus monticola, 1453
Desmognathus quadramaculatus, 1453
 Detritus, 1932, 1966
 Developmental flexibility, 1760
 Developmental period, 1495
Diadema antillarum, 1581
 Diapause, 1479
Diaphania, 1616
Diaptomus, 900
 Diatoms, 946, 1955
Dictyota, 1567
 Diet breadth, 857
 Diet selection, 1029
 Differential mortality, 971
 Differentiation, 54
 Digestion, 1606
 Dioecy, 444, 2056
Diplodus holbrookii, 1567

Dipodomys, 1071
 Discrimination behavior, 245
 Dispersal, 199, 684, 1262, 1328, 1778, 2006
 Dispersal behavior, 857
 Dispersal distances, 27, 310
 Disperser assignment, 1102
 Disperser mortality, 310
 Dispersion, 971
 Dissimilarity, 448
 Distribution, 124, 1029
 Distribution-free tests, 2046
 Disturbance, 43, 411, 417, 478, 491, 576, 946, 1113, 1294, 1437, 1592, 1696
 Disturbance regime, 1243
 Diversity, 108, 946, 1243
 Dominance, 1466
 Dominance and suppression, 737
 Doubly labelled water, 1029
 Dragonflies, 921
 Drainage, 1109
Drosophila, 154

E

Ecological correlates, 713
 Ecological distance, 750
 Ecological gradients, 448
 Ecological segregation, 351
 Economics, 765, 772
 Ecosystem, 1139
 Ecosystem development, 1966
 Ecotones, 448
 Ecotypes, 54, 188
 Ectoparasitoids, 733
Ectopistes migratorius, 1993
 Egg parasitoid, 857
 Eggs, 983
 Egrets, 1760
 El Niño, 1735
 Electrophoresis, 188
 Elevated CO₂, 401
 Elevated temperature, 401
 Elongation patterns, 1251
 Embryos, 983
 Emigration, 539
 Empirical model, 1943
Enallagma, 900
 Endangered species, 660, 1401, 1412
 Enemies hypothesis, 1616
 Energy metabolism, 1029
 England, 142
 Environmental stochasticity, 154
 Environmental uncertainty, 1437
 Environmental variability, 142
Epirrita autumnata, 558
Epischura, 596
 Equilibrium theory, 587
Eriophorum vaginatum, 401
Erodium, 1113
 Estuary, 1906
 Ethics, 765, 772
 Euclidian distances, 448
Euphydryas, 1262
Eurosta solidaginis, 822
 Evergreen, 1974
 Evolution, 1262, 1839, 1844
 Evolution of sex, 444
 Evolutionary ecology, 229
 Experiment, 1306
 Experimental communities, 675, 921

Experimental design, 1364
 Experimental field study, 1437
 Experimental ponds, 921
 Experimental streams, 1856
 Exploitation, 1466
 Exploitation competition, 284, 332, 1773
 Extinction, 117, 154, 660, 765, 766, 776

F

Facilitation, 780, 1679, 1906
Fagus, 260
Fagus grandifolia, 417, 1993
 Fat storage, 1051
 Fecal nitrogen, 98
 Fecundity, 77, 1003, 1351, 1488, 1828
 Feeding, 955
 Feeding effects, 1567, 1581
 Feeding rate, 1029
 Fenced enclosures, 684
 Fertilization, 547
Ficedula albicollis, 291
 Field enclosure experiment, 1459
 Field experiment, 284, 291
 Field metabolic rate, 1029
 Finland, 558
 Fire, 463, 791, 1243, 1984
 Fire senescence, 211
 Fish, 651, 1581, 1856, 1863
 Fitness, 291, 1224
 Fitness analysis, 1045
 Flooding, 1157
 Floodplain succession, 1319
 Flow regime, 946
 Flowering, 1696
 Flowering phenology, 1283
 Fluctuating herbivore populations, 1623
 Fluorescent dyes, 1273
 Flycatchers, 723
 Foliage, 547
 Foliage chemistry, 828
 Food amount, 1760
 Food consumption, 351
 Food level, 994, 1003
 Food level variation, 611
 Food limitation, 332, 1009
 Food preferences, 319
 Food supply, 723, 1735
 Food web, 1437, 1863
 Foraging, 900, 955, 1466, 1502, 1856
 Foraging behavior, 351, 530, 1306, 1679, 1797
 Foraging ecology, 98, 669, 1606
 Foraging efficiency, 1773
 Foraging mode, 887
 Foraging range, 351
 Foraging strategies, 955, 1273
 Forest dynamics, 417
 Forest fragmentation, 260
 Forest history, 1, 791
 Forest regeneration, 417
 Forestry, 749
 Forests, 1974
 France, 463
 Frequency, 844
 Freshwater macrophytes, 1920
 Frog, 344
 Frugivore, 297
 Frugivorous insects, 878
 Fruit, 297
 Fruit area, 27

Fruit distribution, 27
 Fruit ripening, 223
 Fruit set, 1294, 1679
 Fruiting patterns, 1711
 Frustrated dispersal, 684
 Fugitive, 2006
 Functional group composition, 1932
 Functional groups, 1906
 Functional response, 900
Fundulus, 379
 Fungi, 425
 Furanocoumarins, 516, 521

G

Gall growth rates, 733
 Gall size, 733
 Galápagos, 1015
 Galápagos Islands, 1735
 Gap disturbance, 1171
 Gap size, 411
 Gaps, 417, 1696
 Garrigue, 463
 Garter snake, 160
 Gastropoda, 229
 Gastropods, 1887
 Gelatinous capsule, 928
 Genealogy reconstruction, 803
 Generalists and specialists, 1015
 Genet architecture, 2016
 Genetic correlations, 1015
 Genetic drift, 765, 766
 Genetic likelihoods, 803
 Genetic markers, 803
 Geographic scale, 124
 Geographical variation, 1479, 1839
 Geometric distribution, 310
 Geomorphology, 1932
 Geomyidae, 1306
 Geospiza, 1735
 Geostatistics, 744
 Germination, 260, 434, 576
 Ghost towns, 478
 Gini coefficient, 1548
 Glasswort, 576, 737
 Glycophilic, 1898
 Goats, 319
 Goby, 1844
 Goldenrod ball gall, 822
 Gonodactylid stomatopods, 1520
Gonodactylus spp., 1520
 Gradients, 54
 Gradsects, 448
 Granivore, 1029
 Granivory, 260
 Grassland, 411
Grayia spinosa, 478
 Grazing, 274, 387, 624, 1243, 1955
 Great Smoky Mountains National Park, 417
 Great Tit, 142
 Gregariousness, 88
 Ground squirrels, 642
 Growth, 344, 1003, 1534, 1747
 Growth energetics, 558
 Growth limitations, 401
 Growth rate, 705, 737
 Guam, 660, 1592
 Guanacaste, 77
 Guild, 332
 Gulf of Mexico, 170, 199

Gustavia superba, 1341
Gutierrezia sarothrae, 1121

H

Habitat, 651
 Habitat complexity, 170
 Habitat generalist, 1785
 Habitat islands, 1724
 Habitat quality, 1262
 Habitat segregation, 1887
 Habitat selection, 170, 362, 695, 1071, 1856
 Habitat structure, 695, 1724, 1785
 Habitat use, 379, 1424
 Hairs, 913
Haliaeetus leucocephalus, 1387
 Halophilic, 1898
 Halophyte populations, 569
 Halophytes, 576
 Hammock, 297
 Hardwood hammock, 1898
 Hare browsing, 1319
 Harmonic mean, 1092
 Harpacticoid, 1906
 Hatching asynchrony, 1747
 Headwater streams, 1856
 Heat, 434
Heliconius butterflies, 1273
Helmitheros, 130
 Herbaceous, 411
 Herbivore adaptation, 558
 Herbivore growth rates, 733
 Herbivore guilds, 1670
 Herbivore infestation, 822
 Herbivore movement, 539
 Herbivore-plant interactions, 1658
 Herbivores, 98, 1606
 Herbivory, 88, 108, 274, 319, 503, 576, 624, 636, 839, 1113, 1567, 1581, 1863, 1920
 Heritability, 1495
 Hermit crab, 971
 Herons, 1760
Heterandria formosa, 611
 Heterochrony, 705
 Heterogeneity, 387, 473
 Heterogeneous environment, 1785
 Heteromyid rodents, 1797
 Heteromyids, 1071
 Heterosperma, 65
 Higher order interactions, 1711
Hirundo rustica, 1373
Holbrookia maculata, 1828
 Holocene, 1553
Holopedium, 928
 Home range, 1071
 Host preference, 245, 1262
 Host selection, 530, 869
 Host use, 869
 Host-marking pheromone, 878
 Host-plant variation, 828
 Hummingbird-pollinated species, 1696
 Hummingbirds, 1283, 1294
 Humus formation, 1181
 Husting dilemma, 213
Hydra, 913
Hydractinia, 971
 Hydrogen cyanide, 1268
 Hydroid, 971
Hyla, 1437
Hyla crucifer, 675

Hyla versicolor, 675
Hyles lineata, 1691

I

Iguanidae, 2059
 Impala, 319
Impatiens capensis, 82
 Inbreeding, 765, 766
 Inbreeding avoidance, 310
 Incubation, 983
 Incubation feeding, 713
 Independent behavioral adaptations, 1084
 Indirect effects, 1670, 1887, 1955
 Indirect interactions, 1887
 Inducible defenses, 636
 Inertia, 463
 Inhibition, 1906
 Insect abundance, 723
 Insect behavior, 869
 Insect dispersion, 1634
 Insect movement, 1658
 Insect parasitoids, 844
 Insect resistance, 822
 Insect vectors, 1658
 Insecta, 1479
 Instar, 558
 Interaction, 77
 Intercropping, 1616
 Interference, 284, 332, 1211, 1466
 Interference competition, 370, 1773
 Interpolation, 744
 Intersexual differences, 1623
 Interspecific competition, 291, 935, 1084, 1778, 1844
 Interspecific interactions, 900, 1201
 Intertidal, 266
 Intertidal marsh, 379
 Intraguild predation, 332
 Intraspecific competition, 675, 695, 878, 1534
 Intraspecific variation, 245
 Inverse density dependence, 844
 Invertebrate predation, 928
 Invertebrates, 221
Ipomopsis aggregata, 1691
 Irrigation, 2032
 Island avifauna, 660
 Island biogeography, 587
 Island-mainland comparisons, 1393
 Islands, 117
 Isotope ratios, 1898
 Iteroparity, 1691

J

Jolly-Balser test, 213
 Jolly-Seber method, 217
 Jolly-Seber model, 213, 1038
 Joyce Kilmer Wilderness Area, 417

K

Kellicottia, 181
Keratella, 181, 370
 Kriging, 744
 Kudu, 319

L

Laboratory experiments, 1453
Lagodon rhomboides, 170
 Lake Valencia, 1551, 1553

Lakes, 1863, 1943
 Lapland, 558
 Lapland Longspur, 713
 Largemouth bass, 1863
Larrea, 828
Larrea tridentata, 547, 741, 1121
 Larval development, 88, 1877
 Larval fish, 379
 Larval growth, 558,
 Larval movement, 971
 Larval trophic mode, 1877
 Late Quaternary climatic changes, 1551
 Leaching, 221
 Leaf angle, 839
 Leaf demography, 2056
 Leaf development, 558
 Leaf galls, 733
 Leaf geometry, 839
 Leaf miner, 1647
 Leaf palatability, 503
 Leaf quality, 245
 Leaf rolls, 88
 Leaf-chewing, 547
 Leafhoppers, 1658
 Leaves, 221
 Lecithotrophy, 1877
Lepidium campestre, 1201
Lepus americanus, 1251
 Leslie matrices, 1877
 Liana, 77
 Life cycle, 1488
 Life history, 142, 434, 705, 1045, 1051, 1062, 1328, 1351,
 1373, 1495, 1828, 1839, 1877, 2006
 Life history trait shifts, 1691
 Life tables, 1351, 1401, 1877
 Light, 434, 516
 Light gap, 1341
Ligurotettix, 828
 Likelihood inference, 1401
 Likelihood ratio tests, 2046
 Limiting similarity, 1424
 Limpets, 387
 Linear regression, 1364
 Litter, 1181, 2023
 Litter bags, 1190
 Litter decomposition, 741
 Lizard territoriality, 2059
 Lizards, 1424
 Load size, 1630
 Lottery model, 1778
 Louisiana, 1906
Lycium andersonii, 478
Lycium pallidum, 741
Lymantria dispar, 857

M

MacArthur-Wilson, 587
 Macrofauna, 1932
 Macrohabitat, 362
Macrotrachela quadricornifera, 1488
 Maize, 108
Malacosoma americanum, 1268
 Mammal, 1351
 Mammalian predator-dispersers, 1341
 Management, 1412
 Mangroves, 266, 1898
 (Marine) turtles, 1412
 Mark-recapture, 1328
 Mass-density relationship, 813

Massachusetts, 1785
 Mast seeding, 260
 Mate defense, 2059
 Maternity assignment, 1102
 Mating, 539
 Mating system, 803, 828, 1844, 2059
 Maturation, 1534
 Mayfly, 1955
 Mechanical strength, 43
 Mediterranean, 463
 Meiofauna, 1906
 Mesocosms, 675, 1306
 Metamorphosis, 705, 994
Metapograpus, 266
 Mexico, 65
 Michigan, 344
 Microarthropods, 226
 Microbial biomass, 425
 Microbial efficiency, 1181
 Microcosms, 587
 Microfauna, 221
 Microhabitat, 362, 971, 1797
 Microhabitat selection, 935
 Microtine rodents, 1812
Microtus, 362, 684, 1113
Microtus ochrogaster, 1778
Microtus pennsylvanicus, 1102
 Migrant bird, 130
 Migration, 1029, 1993
 Minimum viable population, 154
 Minnesota, 12
 Mixed mesophytic species, 417
 Mobile prey, 1520
 Model fitting, 1190
 Models, 117, 310
 Moisie River, 1139
 Mojave Desert, 478
 Mojave Desert, Nevada, 741
 Monocultures, 1658
 Moraceae, 1553
 Morphology, 27, 737, 1424
 Morphology and diet, 1015
 Mortality, 43, 569, 1351, 1515, 1534
 Mortality hazard, 1856
 Mount Ranier, 1
 Mount St. Helens, 780
 Movement, 1262
 Moving split-window distances, 448
 Mucilage, 946
 Mud snails, 229
 Multivariate statistics, 1785
 Mussel watch, 749
 Mutual predation, 921, 935
 Mycophagy, 226
Mytilus, 1502

N

Natal dispersal, 310
 Natal philopatry, 310
 National Forests, 765, 766, 772, 776
 Natural enemies, 88
 Nectar production, 1696
 Nectar volume, 1104
 Needle macrofossils, 1
 Neighborhood competition, 82
 Neighborhood effects, 1211
 Neoequilibrium, 1592
Neosarmatium, 266
 Neoteny, 994

Nepeta cataria, 1679
 Nest microclimate, 713
 Nest predation, 713, 1393
 Nest relief intervals, 351
 Nestling mortality, 1373
 Net cost of transport, 1630
 Net ecosystem production, 1966
 New Jersey, 675
 New South Wales, 387
 New York, 1819
 Niche, 54
 Niche shift, 284, 1773
 Niche width, 1015
 Nitrification, 491, 1171
 Nitrogen, 12, 547, 1157, 1966, 1974
 Nitrogen fertilization, 1670, 2032
 Nitrogen mineralization, 491, 1171, 1181
 No-till agriculture, 425
 Non-outbreak populations, 857
 Nonbreeders, 1387
 Nonlinear ordination, 750
 Nonpolar extracts, 503
 North Carolina, 705, 1932
 Northern hardwood-hemlock forest, 1171
Notonecta, 935
Notophthalmus, 1437
Notophthalmus viridescens, 217, 675, 705
 Nuclear polyhedrosis virus, 857
 Null communities, 1424
 Null models, 1283
 Nutrient budgets, 1157
 Nutrient cycling, 425, 491
 Nutrient cycling theory, 1181
 Nutrient enrichment, 624
 Nutrient immobilization, 1966
 Nutrient retention, 491, 1157
 Nutrient retranslocation, 1974
 Nutrients, 516
 Nutrition, 88
 Nutritional ecology, 857

O

Oak, 1974
 Ocala National Forest, 88
Ochotona princeps, 274
 Ocyrodidae, 955
Odonata, 900, 921, 1459
 Oklahoma, 1243
 Old fields, 12, 254, 1201, 1211, 1634
 Old growth, 765, 766, 772, 776
 Old-field perennials, 1116
Olea europaea, 1711
 Omnivory, 226
Omphalocera, 88
 Ontario, 362
 Ontogenetic, 651
 Ontogeny of behavior, 130
 Operational sex ratio, 2059
 Operative environmental temperature, 160
Ophraella sp., 1670
 Optimal body mass, 1051
 Optimal defense theory, 521
 Optimal foraging, 1015, 1104, 1630
 Optimality, 1045
 Optimization model, 1856
 Orb-weaving spider, 887
 Ordination, 463, 750
 Organic matter, 425
 Osmolality, 188

Outmigration, 217
 Ovenbird, 695
 Oviposition, 878

P

P. antarctica, 351
P. papua, 351
 Pacific Northwest, 1
Padina, 636
 Paedomorphosis, 705, 994
Pagurus, 971
Palaemonetes, 379
 Paleocology, 1, 791, 1993
 Paleocology in tropics, 1551
 Palynological analyses, 1551
 Palynology, 1, 791
 Panama, 1341
Panulirus, 1502
 Parasite, 77
 Parasitism, 1647
 Parasitism rates, 1616
 Parentage, 803
 Parental care, 713
Parichthys notatus, 1844
 Paridae, 1038
 Parrotfish, 1581
Parulinae, 130
Parus, 284
Parus ater, 1773
Parus caeruleus, 291
Parus major, 142, 291
Parus montanus, 1773
 Passenger Pigeon, 1993
 Past life history, 1812
Pastinaca sativa, 516, 521
 Patch density, 530
 Patch dynamics, 1294, 1696
 Patch size, 260, 1113, 1679
 Patches, 117
Patelloida, 387
 Path analysis, 82, 1224
 Pathogen/host interactions, 1634
 Pedipalp, 1495
 Periphyton, 1955
 Permutation tests, 82
Peromyscus, 362
Peromyscus leucopus, 1084, 1785
Peromyscus maniculatus, 1084
 Perturbation, 1045
 Perturbation experiment, 274
 Phenology, 88, 223, 297, 558, 1273, 2032
 Phenotypic correlations, 1495
 Phenotypic plasticity, 569, 636, 1224
 Phenotypical adaptation, 928
 Pheromones, 539
Phlox drummondii, 54
 Phosphorus, 1943, 1966, 1974
 Photosynthetic adjustment, 401
 Photosynthetic pathways, 254
 Phylogenetic constraint, 1828
 Phytophage accumulation, 839
 Phytophage guilds, 839
 Phytophagous insects, 254, 547
 Phytoplankton, 624, 1943
Picea engelmannii, 43
Pinus contorta, 43, 1966
Pinus ponderosa, 473
Pinus rigida, 857
 Piscivory, 1863

- Planktivory, 1863
 Planktotrophy, 1877
 Plant allometry, 813
 Plant community, 274
 Plant competition, 274, 813
 Plant distribution, 1797
 Plant diversity, 1920
 Plant geometry, 813
 Plant growth, 82
 Plant macrofossils, 791
 Plant pathogens, 1658
 Plant population dynamics, 813
 Plant populations, 43
 Plant productivity, 2023
 Plant secondary chemistry, 503
 Plant water, 1898
 Plant-animal interactions, 1306
 Plant-herbivore interactions, 828, 1268, 1567, 1581
 Plant-insect interactions, 539, 857
 Plant-pollinator interactions, 1679
Plantago lanceolata, 1201
 Plants, 54
Plectrophenax nivalis, 713
Plethodon cinereus, 1819
Poa pratensis, 411
 Poeciliidae, 611
 Poecilogony, 1877
 Point patterns, 473
 Poisson process, 473
 Politics, 765, 772
 Pollen, 1, 1294, 1553
 Pollen flow, 1273
 Pollination, 260, 444, 1283, 1294
 Pollinator abundance, 1691
 Pollinator limitations, 444, 1679
 Polychaete, 1877
 Polycultures, 1616, 1658
 Polymorphism, 370
 Pomacentridae, 1534
 Pond drying, 994, 1003
 Pond sediments, 1
 Population control, 344
 Population dynamics, 154, 344, 1234, 1328, 1634, 2006
 Population ecology, 642
 Population expansion, 1993
 Population limitation, 1520, 1534
 Population regulation, 675, 1009, 1387
 Population sizes, 351
 Population stability, 1634
 Population variation, 1015
 Populations, 54
 Post-settlement mortality, 199
 Postlarval recruitment, 1520
 Postlarval shrimp, 379
Potania, 733
 Potassium, 1966
 Power analysis, 1364, 1459
Prays, 1711
 Predation, 170, 260, 624, 651, 660, 669, 675, 900, 1437, 1453, 1459, 1502, 1515, 1647, 1887
 Predation gradient, 274
 Predation modelling, 900
 Predation risk, 379, 1051, 1062
 Predator avoidance, 170, 913
 Predator prey, 1856
 Predator-prey interactions, 596, 1634
 Predator-prey relationships, 669
 Predator-prey theory, 1887
 Predawn xylem sap potentials, 1121
 Predicted prey abundance, 695
 Prenatal environment, 1812
 Prey abundance, 695
 Prey behavior, 170
 Prey depletion, 1459
 Prey selection, 669, 900
 Prey size, 1760
 Primary production, 1863
 Primary succession, 780
 Priority effects, 587, 675
 Production of basal shoots and flowers, 1623
 Productivity, 1966
 Protein digestion, 98
Protocalliphora, 1373
Prunella vulgaris, 1224
Prunus serotina, 1268
Pseudacris, 344
 Pseudoscorpion, 1495
Psiguria warszewiczii, 1273
 Punctual kriging, 744
Pygoscelis adeliae, 351
 Pyralidae, 88, 1616
- Q
- Quaternary, 1553
 Quaternary studies, 791
 Quebec, 1139
Quercus, 1647
Quercus spp., 857
- R
- Radio-tracking, 1071
 Radionuclides, 1102
 Radiotelemetry, 160, 1092
 Rainfall, 741
Rana, 1437
 Random sampling, 749
 Randomization, 2043
 Randomization tests, 82
 Range extension, 1993
 Rare events, 1735
 Reciprocal transplant, 569
 Recovery, 1488, 1592
 Recruited young, 291
 Recruitment, 387, 971, 1502, 1534, 1592
 Red squirrel, 1092
 Red-spotted newt, 217
 Red-tailed Hawk, 669
 Refugia, 1502
 Refuging consumer, 274
 Regional monitoring, 749
 Regression, 362, 2046
 Regression models, 1190
 Regression studies, 1630
Regulus, 284
 Reproduction, 611, 684, 1003, 1045, 1328, 1387
 Reproduction start, 928
 Reproductive biology, 65
 Reproductive constraints, 1045
 Reproductive costs, 1045
 Reproductive effort, 1062, 1251
 Reproductive fitness, 411
 Reproductive strategies, 1839
 Reproductive success, 1623, 1691
 Reproductive value, 1351
 Reptiles, 160
 Rerandomization, 1459
 Reservoirs, 1943
 Residual reproductive value, 1351
 Resilience, 463

Resource competition, 1647
 Resource depletion, 723
 Resource exploitation, 878
 Resource partitioning, 1084
 Resources, 12, 651
 Respiration rates, 181
Rhagoletis, 878
Rhizophora, 266
 Risk aversion, 1104
 Risk sensitivity, 887, 1104
 Risk spreading, 1984
 River, 1139, 1943
 River continuum, 1932
 Rocky Mountains, 43
 Rodent, 1328
 Rodent removal experiment, 1084
 Roots and rhizomes, 1109
 Rotifers, 181, 370
Rumex acetosella, 2056
 Ruminants, 98, 319, 1606

S

Salamander, 213, 705, 994, 1003
 Salamander distribution, 1819
Salicornia europaea, 569, 576, 737
 Salinity, 1898
 Salinity tolerance, 188
 Salivary proteins, 1606
Salix glauca, 43
Salix lasiolepis, 733
Salix myrsinifolia-phylicifolia, 1623
Salmo salar, 1839
 Salt marsh, 576, 1109
 Sap-sucking, 547
 Savanna vegetation, 319
 Sawflies, 733
 Scale, 362, 473
Scaphiopus, 1437
 Scarlet gilia, 1691
Sceloporus undulatus, 1828
Scopimera, 955
 Scorpion, 332
 Seagrass, 199
 Seagrass meadows, 170
 Search behavior, 869
 Seasonal foliar nutrients, 1974
 Second-order neighborhood analysis, 473
 Secondary host, 857
 Secondary metabolites, 1567
 Secondary production, 1932
 Seed abundance, 1797
 Seed bank, 65, 569
 Seed dispersal, 65, 223, 576, 780, 1341, 1711, 1993
 Seed distribution, 1797
 Seed dormancy, 65
 Seed germination, 1984
 Seed heteromorphism, 65
 Seed mass, 27, 780, 1224
 Seed predation, 266, 1341, 1711
 Seed production, 444, 1009
 Seed release, 1984
 Seed size, 411, 1341
 Seedling establishment, 1341, 1984
 Seedling survival, 780, 1341
 Seeds, 260, 297, 2006
Selasphorus platycercus, 1691
Selasphorus rufus, 1691
 Self-thinning, 737
 Self-thinning rules, 813
 Semelparity, 1691
 Semivariance, 744
Semotilus atromaculatus, 1856
Senecio jacobaea, 2006
 Sensitivity analysis, 1234
 Sequential hermaphroditism, 1844
 Serotiny, 1984
Sesarma, 266
 Sessile marine invertebrates, 199
 Settlement, 199, 971
 Settlement patterns, 310
 Sex change, 1844
 Sex ratio, 539, 2056
 Sexual dimorphism, 1495
 Sexual selection, 539, 803, 828, 1844
 Shared predation, 1887
 Shrubs, 741, 1234, 1974
 Siblicide, 1760
 Sibling competition, 1760
 Sibship assignment, 1102
Sigmodon hispidus, 1778
Simocephalus, 900
 Simulation, 2046
 Simulation models, 1190
 Size at metamorphosis, 344
 Size distributions, 1548
 Size hierarchies, 82, 1548, 1747
 Size-dependent predation, 921
 Size-selectivity, 913
 Size-specific resource utilization, 1520
 Skeletonization, 221
 Slash and burn, 491
 Snails, 1920
 Snakes, 160
 Snow avalanches, 43
 Snow Bunting, 713
 Snowshoe hare, 1319
 Social dominance, 1773
 Sociality, 1373
 Soil, 221, 1181
 Soil acidification, 1819
 Soil characteristics, 1797
 Soil disturbance, 1306
 Soil moisture, 1819, 2032
 Soil nitrogen, 2032
 Soil nutrients, 319
 Soil organic matter, 2023
 Soil pH, 1819
 Soil respiration, 2023
 Soil temperature, 1819
 Soil thermocouples, 1121
Solidago, 1634, 2016
Solidago altissima, 822
Solidago canadensis, 1211
 Soluble phenolics, 98, 1606
 Somatic allocation, 1495
 Somatic polymorphism, 2006
 Sonoran Desert, 1797, 2059
 South Africa, 319
 South Carolina, 254
 Southeast Alaska, 1387
 Southeastern United States, 1412
 Southern Appalachians, 417
 Space use patterns, 1092
 Spain, 1711
 Sparrow populations, 1009
Spartina alterniflora, 1109
 Spatial patterns, 473
 Spatial refuges, 1520

Spatial separation, 935
 Spatial variability, 744
 Spatial variation, 199
 Spawning age, 1839
 Species diversity, 1009
 Species richness, 1424
 Species turnover, 750
 Species-area relationship, 1724
Spermophilus, 642
Spermophilus columbianus, 1351
 Spine induction, 370
 Spiny lobster, 1502
 Spotted Owl, 765, 766, 772, 776
 Spurious correlation, 1839
 Stability, 154
 Stable isotopes, 1898
 Stage class matrix projection models, 1412
 Stand development, 1966
 Standing crop, 1955
 Starvation, 1515
 Starvation risk, 1051
 Statistical artifact, 1839
 Statistical ecology, 744
 Statistics, 1548
 Stereotypy, 130
Stilbosis, 1647
 Stochastic environment, 887
 Storage effect, 1778
 Stream order, 1139
 Streams, 651, 1139, 1932, 1955
Streblospio benedicti, 1877
Strix occidentalis, 765, 766, 772, 776
 Structural cues hypothesis, 695
 Subalpine meadow, 274
 Subalpine vegetation, 780
 Subarctic, 1139
 Sublethal plant defenses, 733
 Suboptimal foraging, 955
 Substrate choice, 1453
 Subterranean, 1306
 Subtidal, 387
 Succession, 12, 108, 587, 1157, 1294, 1696, 1966
 Superfecundation, 611
 Survival, 569, 684, 1328, 1351, 1747
 Survival rate, 1038
 Survivorship, 211, 217, 344, 411, 1401, 1488
 Sweden, 291, 928, 1190
 Swimming speeds, 181, 351
 Switching, 869, 900
Sylvia, 1711
Synaptomys cooperi, 1778
Synchaeta, 181

T

10-year cycle, 1401
 -3/2 power law, 812
Tachigalia versicolor, 27
 Tadpole, 344
 Tallgrass prairie, 1243, 2023
Tamiasciurus hudsonicus, 1092
 Tannins, 98, 1606
 Tea, 839
Tegula species, 1887
 Temperate, 297
 Temperature, 983
 Temperature and development, 1479
 Temperature tolerance, 935
 Temporal constancy, 1634
 Temporal variability, 744

Temporary emigration, 213
 Tent caterpillars, 1268
 Tephritidae, 878
 Termites, 2032
 Terpenes, 1567, 1581
 Territorial behavior, 1273
 Territoriality, 828
 Territory size, 695
Tetragnatha elongata, 887
Tetraopes tetraophthalmus, 539
Thamnophis elegans vagrans, 160
 Thermal ecology, 160
 Thermal preference, 160
 Thermal threshold, 1479
 Thermocouple psychrometers, 1121
 Thermoregulation, 160
 Thinning, 43
 Threshold food concentrations, 181
 Tiller production, 401
 Timber, 221
 Timber industry, 765, 772
 Time, 12
 Total nonstructural carbohydrates, 401
Tozeuma carolinense, 170
 Trade-off, 1051, 1495, 1515, 1856
Tragelaphus strepsiceros, 319
 Transition matrix models, 1234
 Translocation experiments, 596
 Traplining behavior, 1273
 Tree dominance, 266
 Tree line, 1251
 Tree shape, 1251
 Tree size, 260
 Treefall gaps, 1171, 1294
 Treefalls, 1696
 Trends, 1364
Trifolium repens, 1201
 Trophic interactions, 624
 Trophic status, 1943
 Tropical deciduous forest, 503
 Tropical deforestation, 491
 Tropical reefs, 636
 Tropical succession, 108
 Tropical vine, 1273
 Tropical woody plants, 503
 Tropics, 1341
Tsuga canadensis, 417
Turdus, 1711
 Turf, 411
 Turtles, 983

U

Ultraviolet radiation, 516
 Uncertainty, 1104
 Ungulates, 319
 Uniform distribution, 749
 Uniformity of distribution, 27
Uroleucon, 1634
Urosalpinx, 971
Urosaurus ornatus, 2059

V

Variable, 547
 Variable environments, 1104
 Variation, 54
 Vegetational diversity, 1616
 Venezuela, 1553
 Vertebrate movements, 310

Vertical segregation, 1084
 Vine, 77
 Visitation rate, 1273
 Viviparity, 611
 Volcanic substrate, 780
 Vole bark damage, 1623

W

Warmwater, 651
 Washington, 160
 Water, 547, 983
 Water flux, 1029
 Water relations, 1029
 Water residence time, 1943
 Web-site choice, 887
 Western Kingbird, 723
 Western Nebraska, 1828
 Wild parsnip, 516, 521
 Wildlife management, 1401
 Willow, 1319
 Wind dispersal, 27

Wind speed, 27
 Wing-loading, 27
 Winter, 1051
 Winter wheat, 2023
 Wintering populations, 124
 Wisconsin, 1993
 Woodlot communities, 1724
 Woody plants, 319
 Worker size, 1630
 Worm-eating Warbler, 130
 Wyoming, 1966

Y

Yield components, 1224
 Yoda's law, 813

Z

Zonation, 1502, 1592
 Zooplankton, 370, 624, 928, 1863
 Zooplankton ecology, 181

BOOK REVIEW INDEX

A

Acid soil and acid rain: the impact on the environment of nitrogen and sulphur cycling (book review), 1561
 Acid soils, 1561
 Agriculture, 1561
 A hierarchical concept of ecosystems (book review), 1126
 Air pollution, 243, 2076
 Allen, T. F. H., reviewed, 1126
 Anderson, D. J., ed., reviewed, 1557
 Anderson, L. W. J., review, 758
 An ecosystem approach to aquatic ecology: Mirror Lake and its environment (book review), 240
 Animal ecology, 236
 Animal ecology (snakes), 1562
 Ant-plant mutualism, 235
 Applied ecology, 2076
 Aquatic ecology, 240, 755-758, 1129, 2075
 Aquatic ecosystems, 1129
 Aquatic photosynthesis, 758
 Aquatic primary productivity, 758
 Are Australian ecosystems different? (book review), 455
 Aromatic compound biosynthesis, 2063
 Asexual replication, 2071
 Aspen ecology, 458
 Aspen: ecology and management in the western United States (book review), 458
 Australian ecosystems, 455
 Autobiography, 760

B

Barbour, M. G., reviewed, 1563
 Battarbee, R. W., reviewed, 2075
 Beattie, A. J., reviewed, 235
 Begon, M., reviewed, 452
 Behavioral ecology, 456, 1559
 Behavior (primate), 1558
 Behavioural ecology: ecological consequences of adaptive behaviour (book review), 456
 Benthic ecology, 2074

Berglund, B. E., ed., reviewed, 242
 Bicknell, S. H., review, 1561
 Billings, W. D., review, 754
 Biogeochemistry, 240, 756
 Biogeography, 238, 451, 754, 2065
 Biogeography of Australia, 455
 Biogeography of rivers, 756
 Biogeography (savanna), 2073
 Biogeography textbook, 451
 Biological control, 1556
 Biological invasions, 1556
 Biomes, 754
 Biotechnology and ecology of pollen (book review), 1133
 Bird ecology, 1127
 Birds, 461, 761
 Birds (marine), 1130
 Bizer, J. R., review, 757
 Bowers, M. A., review, 236
 Burk, J. H., reviewed, 1563
 Burrough, P. A., reviewed, 2064
 Butler, P. J., reviewed, 461

C

CAD, 2064
 Carpenter, S. R., review, 240
 Case studies, 236
 Case studies in population biology (book review), 236
 Chaos (book review), 1125
 Chaotic behavior, 1125
 Chapman, S. B., ed., reviewed, 1131
 Cladistic biogeography (book review), 451
 Cladistics, 451
 Clonal organisms, 2071
 Coastal ecology, 2074
 Cody, M. L., review, 1557
 Cole, M. M., reviewed, 2073
 Colinvaux, P., reviewed, 759
 Collins, J. T., ed., reviewed, 1562
 Community dynamics, 460
 Community ecology, 234, 237, 460, 1556, 1557

Community ecology: pattern and process (book review), 1557
 Community structure, 1129
 Conn, E. J., ed., reviewed, 2063
 Conservation, 454, 1130, 1558
 Conservation biology: the science of scarcity and diversity (book review), 454
 Conservation (primates), 1558
 Consider a spherical cow: a course in environmental problem solving (book review), 2066
 Convergent evolution, 455
 Cook, L. M., ed., reviewed, 236
 Crawley, M. J., ed., reviewed, 2070
 Cycles of soil: carbon, nitrogen, phosphorus, sulfur, micronutrients (book review), 457

D

Dams, 757
 Danks, H. V., reviewed, 2069
 Darwin's finches, 1127
 Davies, B. R., ed., reviewed, 756
 Davis, R. B., reviewed, 2075
 Dawson, T., review, 1134
 DeAngelis, D. L., review, 1125
 DeAngelis, D. L., reviewed, 1126
 DeByle, N. V., ed., reviewed, 458
 Delcourt, H. R., review, 242
 Delcourt, P. A., review, 242
 Dell, B., ed., reviewed, 2067
 Demography, 236, 452, 453
 Desert ecology, 234, 754
 Desertification, 754
 Deserts, 754
 Deshmukh, I., reviewed, 239
 Diapause, 1127, 2069
 Diatoms and lake acidity: reconstructing pH from siliceous algal remains in lake sediment (book review), 2075
 Dispersal, 451
 Disturbance (ecosystem response), 2067
 Diversity, 454
 Doak, D., review, 1134
 Dodson, J. R., ed., reviewed, 455
 Drake, J. A., ed., reviewed, 1556

E

Ecological adaptations, 1127
 Ecological theory and integrated pest management practice (book review), 1564
 Ecology (book review), 759
 Ecology and evolution of Darwin's finches (book review), 1127
 Ecology and natural history of desert lizards (book review), 234
 Ecology and tropical biology (book review), 239
 Ecology of biological invasions of North America and Hawaii (book review), 1556
 Ecology of protozoa: the biology of free-living phagotrophic protists (book review), 1132
 Ecology textbook, 233, 238, 452
 Economic models, 1134
 Ecosystem ecology, 240, 455
 Ecosystem management, 2065
 Ecosystem nutrient cycles, 457
 Ecosystem preservation, 2065
 Ecosystem resilience, 2067
 Ecosystem theory, 1126, 1557
 Ecosystem theory and application (book review), 1557
 Egerton, F. N., review, 759
 Ehrlich, A. H., review, 2066
 Ehrlich, P. R., review, 2066
 Ellis, J. E., review, 1557

Ellner, S., review, 1126
 Else, J. G., ed., reviewed, 1558
 Endangered species, 2065
 Endler, J. A., reviewed, 453
 Environmental biology textbook, 759
 Environmental impact, 757, 2076
 Environmental impact assessment, 459
 Environmental impact of dams, 459, 757
 Environmental problem solving, 2074
 Environmental science, 2074
 Epiphytic microbiology, 2072
 Equilibrium theory, 460
 Estrada, A., ed., reviewed, 1128
 Evanari, M., ed., reviewed, 754
 Evolutionary ecology, 235, 453

F

Fairbairn, D. J., review, 2068
 Feder, M. E., reviewed, 241
 Fenchel, T., reviewed, 1132
 Fleming, T. H., ed., reviewed, 1128
 Floristic regions, 2065
 Floristic regions of the world (book review), 2065
 Fokkema, N. J., ed., reviewed, 2072
 Foraging theory, 1559
 Foraging theory (book review), 1559
 Forest dynamics, 1128
 Forest ecology, 458
 Forest management, 458
 Forman, R. T. T., reviewed, 233
 Frugivores and seed dispersal (book review), 1128
 Frugivory, 1128
 Furness, R. W., reviewed, 1130

G

Galapagos finches, 1127
 Galen, C., review, 1133
 Gametophytic ecology, 1133
 Garber, P. A., review, 1558
 Geber, M., review, 1134
 Geographical information systems, 2064
 Geomorphology (savanna), 2073
Geospiza spp., 1127
 Gilliam, J. F., review, 456
 GIS, 2064
 Givnish, T. J., ed., reviewed, 1134
 Godron, M., reviewed, 233
 Goldsmith, E., reviewed, 757
 Goodall, D. W., ed., reviewed, 754
 Gosselink, J. G., reviewed, 1135
 Gradients, 755
 Grant, P. R., reviewed, 1127
 Green, R. F., review, 1559

H

Hammer, U. T., reviewed, 755
 Handbook of Holocene palaeoecology and palaeohydrology (book review), 242
 Harper, J. L., ed., reviewed, 2071
 Harrington, B. A., review, 1130
 Harris, G. P., reviewed, 460
 Harte, J., reviewed, 2066
 Hawaiian ecosystems, 2065
 Hawaii's terrestrial ecosystems: preservation and management (book review), 2065
 Hecky, R. E., review, 459
 Heip, C., ed., reviewed, 2074
 Heithaus, E. R., review, 759
 Herpetology, 234, 241, 1562

Hierarchy theory, 1126
 Hildyard, N., reviewed, 757
 History of ecology, 759, 760
 Holden, A. V., ed., reviewed, 1125
 Holocene ecology, 242
 Holons, 1126
 Hopkins, A. J. M., ed., reviewed, 2067
 Horn, D. J., review, 1127
 Hot deserts and arid shrublands, A and B (book review), 754
 Hueneke, L. F., review, 2070
 Human ecology, 239
 Humphries, C. J., reviewed, 451
 Hydroecology, 459, 756
 Hydrology, 459, 756

I

Ichthyology, 241
 Impounded rivers: perspectives for ecological management (book review), 459
 Insect dormancy, 2069
 Insect dormancy: an ecological perspective (book review), 2069
 Insect ecology, 1127
 Insect life cycles, 2068, 2069
 Insect pests, 1564
 Intertidal communities, 238, 2074
 Invasions, 1556
 Izhaki, I., review, 1128

J

Jolivet, P., reviewed, 235

K

Karban, R., ed., reviewed, 2068
 Kareiva, P., review, 1556
 Keegan, B. F., ed., reviewed, 2074
 Keeler, K. H., review, 235
 Kever, C., reviewed, 760
 Kennedy, I. R., reviewed, 1561
 Kikkawa, J., ed., reviewed, 1557
 Kirk, J. T. O., reviewed, 758
 Kogan, M., ed., reviewed, 1564
 Krebs, J. R., reviewed, 1559
 Krupa, S. V., ed., reviewed, 243

L

Lajtha, K., review, 457
 Lake acidity, 2075
 Lamont, B. B., ed., reviewed, 2067
 Landscape ecology, 233
 Landscape ecology (book review), 233
 Landscape structure, 233
 Langenheim, J. H., review, 2072
 Lauder, G., reviewed, 241
 Lechowicz, M. J., review, 1131
 Lee, P. C., ed., reviewed, 1558
 Legge, A. H., ed., reviewed, 243
 Les fourmis et les plantes. Un exemple de coévolution (book review), 235
 Levin, L. A., review, 237
 Lewis, J. R., ed., reviewed, 2074
 Life cycle evolution, 2068
 Life history (insects), 2069
 Light, 758
 Light and photosynthesis in aquatic ecosystems (book review), 758
 Likens, G. E., ed., reviewed, 240
 Limnology, 755, 1129, 2075
 Lizard community structure, 234
 Lizards, 234

Long-term changes in coastal benthic communities (book review), 2074
 Long-term studies, 2074
 Lovett Doust, J., review, 1560
 Lugo, A. E., review, 238
 Lynch, J. F., review, 454

M

MacMillen, R. E., review, 234
 Management, 1130
 Management of rivers, 459
 Mangrove botany, 238
 Manly, B. F. J., reviewed, 453
 Maps, 2064
 Marine ecology, 2074
 Marine protozoan ecology, 1132
 Masaki, S., reviewed, 1127
 Mediterranean-type ecosystems, 2067
 Melack, J. M., reviews, 755, 756
 Meriläinen, J., reviewed, 2075
 Meteorology, 242
 Methodology (plant ecology), 1131
 Methods in plant ecology (book review), 1131
 Microbiology, 2072
 Microbiology of the phyllosphere (book review), 2072
 Mineral cycling, 1561
 Mitsch, W. J., reviewed, 1135
 Mittelbach, G., review, 241
 Modeling, 1126
 Modular organisms, 2071
 Modular organisms: case studies of growth and form (book review), 2071
 Monaghan, P., reviewed, 1130
 Mooney, H. A., ed., reviewed, 1556
 Moore, J. W., reviewed, 2076
 Moore, P. D., ed., reviewed, 1131
 Morrow, P. A., review, 455
 Mortimer, M., reviewed, 452
 Moving on: a way of life (book review), 760
 Muenchow, G. E., review, 2071
 Mulcahy, D. L., reviewed, 1133
 Mulcahy, G. B., reviewed, 1133
 Mulroy, T. W., review, 243
 Mutualism (ant-plant), 235
 Mutualistic endophytes, 2072

N

Natural history of lizards, 234
 Natural history of mangroves, 238
 Natural selection, 453
 Natural selection in the wild (book review), 453
 Nettleship, D. N., review, 761
 Nitrogen cycling, 1561
 Nonlinear dynamics, 1125
 Norris, R. F., review, 1564
 North American wetlands, 1135
 Novak, S. S., ed., reviewed, 1562
 Noy-Meir, I., ed., reviewed, 754
 Nutrient cycling, 457

O

O'Donald, P., reviewed, 761
 O'Leary, J. F., review, 2067
 O'Neill, R. V., reviewed, 1126
 On the economy of plant form and function (book review), 1134
 Optimality modeling, 1134
 Ornithology, 461, 761, 1127, 1131
 Ottaviano, E., reviewed, 1133

P

- Paleoecology, 242, 759
 Paleoecology, 242
 Paleolimnology, 240, 2075
 Parasitic Jaeger, 761
 Parenti, L. R., reviewed, 451
 Payne, A. I., reviewed, 1129
 Pest management, 1564
 Petts, G. E., reviewed, 459
 pH and diatoms, 2075
 Phillips, J. G., reviewed, 461
 Physics of light, 758
 Physiological ecology, 461
 Physiological strategies in avian biology (book review), 461
 Physiology of birds, 461
 Phytoplankton ecology, 460
 Phytoplankton ecology: structure, function and fluctuation (book review), 460
 Pianka, E. R., reviewed, 234
 Pitts, W. D., reviewed, 1563
 Plant breeding systems, 1560
 Plant breeding systems (book review), 1560
 Plant demography, 1128
 Plant ecology, 1131
 Plant ecology (book review), 2070
 Plant ecology (text), 1563, 2070
 Plant evolutionary ecology, 1560
 Plant form, 1134
 Plant geography, 2065
 Plant growth regulation, 2063
 Plant morphology, 1134
 Plant pathology, 2072
 Plant physiological ecology, 1134
 Plant reproduction, 1560
 Plant textbook, 1560
 Pollen biotechnology, 1133
 Pollen ecology, 1133
 Pollutants, 243, 2076
 Polunin, N., ed., reviewed, 1557
 Population biology, 236
 Population dynamics, 456, 1125
 Population ecology, 452, 761
 Population ecology: a unified study of animals and plants (book review), 452
 Population estimation, 236
Populus tremuloides, 458
 Predation, 237, 241
 Predator-prey relationships (book review), 241
 Preservation, 454
 Primate ecology, 1558
 Primate ecology and conservation (book review), 1558
 Principles of geographical information systems (book review), 2064
 Problem solving (text), 2066
 Protozoan ecology, 1132

Q

- Quaternary environments, 242

R

- Ralska-Jasiewiczowa, M., ed., reviewed, 242
 Regulation of pollutants, 243
 Reise, K., reviewed, 237
 Repetitive sampling, 236
 Resilience in ecosystems, 2067
 Resilience in Mediterranean-type ecosystems (book review), 2067
 Resource management, 458, 459
 Richards, A. J., reviewed, 1560

- River ecology, 459, 756
 Roberts, M. R., review, 458
 Romme, W. H., review, 233
 Rosen, B. R., ed., reviewed, 2071
 Round, F. E., review, 2075
 Ruess, R. W., review, 2073

S

- Saline lake ecosystems of the world (book review), 755
 Saline lakes, 755
 Salt, G. W., review, 1132
 Sampling methods, 236, 453
 Saunders, J. F., III, review, 1129
 Savanna geobotany, 2073
 Scarcity, 454
 Schluter, D., review, 453
 Schultz, J. C., review, 2063
 Schwinghamer, P., review, 2074
 Scott, J. M., reviewed, 2065
 Seabird ecology (book review), 1130
 Seasonal adaptations of insects (book review), 1127
 Seasonality (insect), 1127
 Secondary compounds, 2063
 Seigel, R. A., ed., reviewed, 1562
 Sharitz, R. R., review, 760
 Sharp, P. J., reviewed, 461
 Sherry, T. W., review, 1127
 Shikimic acid pathway, 2063
 Shrublands, 754
 Sibly, R. M., ed., reviewed, 456
 Siegfried, C. A., review, 460
 Simberloff, D., review, 451
 Smith, R. H., ed., reviewed, 456
 Smol, J. P., reviewed, 2075
 Snake ecology, 1562
 Snakes: ecology and evolutionary biology (book review), 1562
 Social behavior, 456
 Söderqvist, T., reviewed, 759
 Soil biochemistry, 457
 Soils, 457, 1561
 Soulé, M. E., ed., reviewed, 454
 Spatial heterogeneity, 233
 Species interactions, 241
 Stanton, M. L., review, 452
 Statistical ecology, 453
 Steady-state models, 460
 Stephens, D. W., reviewed, 1559
Stercorarius parasiticus, 761
 Stevenson, F. J., reviewed, 457
 Stiles, F. G., review, 239
 Stone, C. P., reviewed, 2065
 Strange attractors, 1125
 Stratigraphic methods, 242
 Sulfur cycling, 1561
 Swedish ecology, 759
 Symbiosis, 235

T

- Takhtajan, A., reviewed, 2065
 Tauber, C. A., reviewed, 1127
 Tauber, M. J., reviewed, 1127
 Taylor, F., ed., reviewed, 2068
 Taylor, F., review, 2069
 Terrestrial ecology (plants), 1563
 Terrestrial ecosystems, 243
 Terrestrial plant ecology (book review), 1563
 The Arctic Skua: a study of the ecology and evolution of a seabird (book review), 761

The botany of mangroves (book review), 238
 The changing environment (book review), 2076
 The ecologists: from merry naturalists to saviours of the nation. A sociologically informed narrative survey of the ecologization of Sweden 1895-1975 (book review), 759
 The ecology of river systems (book review), 756
 The ecology of tropical lakes and rivers (book review), 1129
 The evolutionary ecology of ant-plant mutualism (book review), 235
 The evolution of insect life cycles (book review), 2068
 The growth and form of modular organisms (book review), 2071
 The Royal Society, reviewed, 2071
 The savannas: biogeography and geobotany (book review), 2073
 The shikimic acid pathway (book review), 2063
 The social and environmental effects of large dams (book review), 757
 The statistics of natural selection on animal populations (book review), 453
 Tidal ecology, 237, 238
 Tidal ecosystems, 237, 238
 Tidal flat ecology: an experimental approach to species interactions (book review), 237
 Tomlinson, P. B., reviewed, 238
 Tropical botany, 238
 Tropical ecology, 239
 Tropical limnology, 1129

V

van der Heuvel, J., ed., reviewed, 2072
 Vankat, J. L., review, 1563
 Vicariance, 451
 Vitousek, P., review, 2065
 Vleck, C. M., review, 461

W

Waide, J. B., reviewed, 1126
 Walker, K. F., ed., reviewed, 756
 Water pollution, 2076
 Watershed ecology, 240
 Webster, G. L., review, 2065
 Wells, K. D., review, 1562
 Westman, W. E., review, 2076
 Westoby, M., ed., reviewed, 455
 Wetland ecology, 1135
 Wetlands, 238, 1135
 Wetlands (book review), 1135
 White, D., review, 2064
 White, J., ed., reviewed, 2071
 Winokur, R. P., ed., reviewed, 458
 Women in ecology, 760

Z

Zedler, J. B., review, 1135

